

Coating composition and a process for preparing coatings with functional groups

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Abstract

The invention relates to a process for the preparation of functional coatings using organofunctional silanes, a metal compound and low-volatility oxides, which comprises a) carrying out a hydrolytic condensation, optionally in the presence of a condensation catalyst and/or of additives, of the following components 1. at least one crosslinkable, organofunctional silane, 2. at least one metal compound, 3. if desired, at least one non-crosslinkable, organofunctional silane, and 4. if desired, one or more low-volatility oxides which are soluble in the reaction medium; b) adding an organic, crosslinkable copolymer to this hydrolytic condensate, and c) applying the coating solution obtained in this way to a substrate, and then curing it.

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